

ABSTRACT OF THE DISCLOSURE

[0098] A method for damping vibration of a substrate comprises the step of applying a liquid material onto the substrate in an ambient environment, wherein, after application to the substrate, the material cures substantially instantaneously in the ambient environment. The damping composition usable therefor comprises a resin component and an isocyanate component. The resin component includes a polymer(s) for imparting tensile strength, hardness and flexibility; an optional chain extender(s) for imparting tensile strength, weatherability, flexibility, adhesion to specific substrates, and hardness; and an optional filler for imparting hardness, flexibility, and specific noise, vibration and harshness blocking characteristics to the after-application, cured surface. The isocyanate component of the composition includes an isocyanate quasi-prepolymer(s) based on a uretonimine modified MDI and a high molecular weight polyether polyol having an isocyanate equivalent content of 15.8% and a 2,4'-isomer content of less than about 15%; and an optional plasticizer(s) for imparting flexibility.